



Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221000040006

Page: 1 of 31

TEST REPORT

Application No.: FYCR2210000400AT
Applicant: Vanstone Electronic (Beijing) Co., Ltd.
Address of Applicant: 3F No.2 Building, Aisino corporation park 18A, Xingshikou Road, Haidian District, Beijing 100195, China
Manufacturer: Vanstone Electronic (Beijing) Co., Ltd.
Address of Manufacturer: 3F No.2 Building, Aisino corporation park 18A, Xingshikou Road, Haidian District, Beijing 100195, China
Equipment Under Test (EUT):
EUT Name: Android POS Terminal
Model No.: A90 Pro
FCC ID: OWLA90-PRO
Standard(s) : 47 CFR Part 15, Subpart C 15.225
Date of Receipt: 2022-10-14
Date of Test: 2022-10-19 to 2022-11-26
Date of Issue: 2023-02-20

Test Result:	Pass*
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* In the configuration tested, the EUT complied with the standards specified above.

Winkey Wang

Winkey Wang
EMC Technical Manager



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Report No.: FYCR221000040006

Page: 2 of 31

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2023-02-20		Original

Authorized for issue by:				
		Tree Zhan		
		Tree Zhan/Project Engineer		
		Winkey Wang		
		Winkey Wang/Reviewer		



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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221000040006

Page: 3 of 31

2 Test Summary

Radio Spectrum Technical Requirement				
Item	Standard	Method	Requirement	Result
Antenna Requirement	47 CFR Part 15, Subpart C 15.225	N/A	47 CFR Part 15, Subpart C 15.203	Pass

Radio Spectrum Matter Part				
Item	Standard	Method	Requirement	Result
20dB Bandwidth	47 CFR Part 15, Subpart C 15.225	ANSI C63.10 (2013) Section 6.9	47 CFR Part 15, Subpart C 15.215	Pass
Conducted Emissions at Mains Terminals (150kHz-30MHz)		ANSI C63.10 (2013) Section 6.2	47 CFR Part 15, Subpart C 15.207	Pass
Emission Mask		ANSI C63.10 (2013) Section 6.4	47 CFR Part 15, Subpart C 15.225(a)&(b)&(C)	Pass
Frequency tolerance		ANSI C63.10 (2013) Section 6.8	47 CFR Part 15, Subpart C 15.225(e)	Pass
Radiated Emissions (30MHz-1GHz)		ANSI C63.10 (2013) Section 6.5	47 CFR Part 15, Subpart C 15.225(d) & 15.209	Pass
Radiated Emissions (9kHz-30MHz)		ANSI C63.10 (2013) Section 6.4	47 CFR Part 15, Subpart C 15.225(d) & 15.209	Pass



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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221000040006

Page: 4 of 31

3 Contents

	Page
1 COVER PAGE	1
2 TEST SUMMARY	3
3 CONTENTS	4
4 GENERAL INFORMATION	6
4.1 DETAILS OF E.U.T.	6
4.2 DESCRIPTION OF SUPPORT UNITS	6
4.3 MEASUREMENT UNCERTAINTY	6
4.4 TEST LOCATION.....	7
4.5 TEST FACILITY.....	7
4.6 DEVIATION FROM STANDARDS.....	7
4.7 ABNORMALITIES FROM STANDARD CONDITIONS	7
5 EQUIPMENT LIST.....	8
6 RADIO SPECTRUM TECHNICAL REQUIREMENT	10
6.1 ANTENNA REQUIREMENT	10
6.1.1 Test Requirement:	10
6.1.2 Conclusion	10
7 RADIO SPECTRUM MATTER TEST RESULTS.....	11
7.1 20DB BANDWIDTH	11
7.1.1 E.U.T. Operation	11
7.1.2 Test Mode Description	11
7.1.3 Test Setup Diagram	11
7.1.4 Measurement Procedure and Data.....	11
7.2 CONDUCTED EMISSIONS AT MAINS TERMINALS (150kHz-30MHz)	13
7.2.1 E.U.T. Operation	13
7.2.2 Test Mode Description	13
7.2.3 Test Setup Diagram	13
7.2.4 Measurement Procedure and Data.....	14
7.3 EMISSION MASK	17
7.3.1 E.U.T. Operation	18
7.3.2 Test Mode Description	18
7.3.3 Test Setup Diagram	18
7.3.4 Measurement Procedure and Data.....	18
7.4 FREQUENCY TOLERANCE	20
7.4.1 E.U.T. Operation	20
7.4.2 Test Mode Description	20
7.4.3 Test Setup Diagram	20
7.4.4 Measurement Procedure and Data.....	20
7.5 RADIATED EMISSIONS (30MHz-1GHz)	22



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Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221000040006

Page: 5 of 31

7.5.1	E.U.T. Operation	22
7.5.2	Test Mode Description	22
7.5.3	Test Setup Diagram	22
7.5.4	Measurement Procedure and Data	23
7.6	RADIATED EMISSIONS (9KHz-30MHz)	26
7.6.1	E.U.T. Operation	27
7.6.2	Test Mode Description	27
7.6.3	Test Setup Diagram	28
7.6.4	Measurement Procedure and Data	28
8	TEST SETUP PHOTO	31
9	EUT CONSTRUCTIONAL DETAILS (EUT PHOTOS)	31



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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221000040006

Page: 6 of 31

4 General Information

4.1 Details of E.U.T.

Power supply:	DC3.6V by li-ion battery(5200mAh) Recharge by AC/DC power adapter Adapter M/N:SW-0983 Adapter input: AC100/240V, 50/60Hz, 0.5A Adapter output: DC5V/2A
Cable(s):	USB cable: 1.5m shielded cable without ferrite core
Operation Frequency:	13.56MHz
Modulation Type:	ASK
Antenna Type:	Loop Antenna

Remark: The information in this section is provided by the applicant or manufacturer, CCS is not liable to the accuracy, suitability, reliability or/and integrity of the information.

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
--	--	--	--

The EUT has been tested as an independent unit.

4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
20dB Bandwidth	$\pm 0.3\%$
Conducted Emissions at Mains Terminals (150kHz-30MHz)	$\pm 2.1 \text{ dB}$ (9kHz to 30MHz)
Emission Mask	$\pm 0.3\%$
Frequency tolerance	$\pm 5.4 \times 10^{-8}$
Radiated Emissions (30MHz-1GHz)	$\pm 5.6 \text{ dB}$ (30MHz-1GHz)
Radiated Emissions (9kHz-30MHz)	$\pm 2.7 \text{ dB}$ (9kHz-30MHz)



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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221000040006

Page: 7 of 31

4.4 Test Location

All tests were performed at:

Compliance Certification Services (Kunshan) Inc. Shenzhen branch.

Fuyong lab. Xinlong TechnoPark, Fengtang Road, Fuyong Subdistrict, Bao'an, Shenzhen, China

Tel: +86 755 8866 3988 Fax: +86 755 2671 0594

No tests were sub-contracted.

4.5 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

• A2LA (Certificate No. 6606.01)

Compliance Certification Services (Kunshan) Inc. Shenzhen branch is accredited by the American Association for Laboratory Accreditation (A2LA). Certificate No. 6606.01.

• FCC –Designation Number: CN1322

Compliance Certification Services (Kunshan) Inc. Shenzhen branch has been recognized as an accredited testing laboratory.

Designation Number: CN1322. Test Firm Registration Number: 718073

• Innovation, Science and Economic Development Canada

Compliance Certification Services (Kunshan) Inc. Shenzhen branch has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0129.

IC#: 28189.

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None



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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221000040006

Page: 8 of 31

5 Equipment List

20dB Bandwidth					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Signal Analyzer	R&S	FSP30	SEM004-06	2022/9/20	2023/9/19
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2022/7/12	2023/7/11
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A

Conducted Emissions at Mains Terminals (150kHz-30MHz)					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Shielding Room	CRT	N/A	SEM001-14	2021/7/13	2024/7/12
EMI Test Receiver	Rohde & Schwarz	ESCI	SEM004-01	2022/7/12	2023/7/11
Two-Line V-Network	Rohde & Schwarz	ENV216	SEM007-16	2022/7/12	2023/7/11
Coaxial Cable	CCS	N/A	SEM033-02	2022/5/16	2023/5/15
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A

Emission Mask					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
3m Anechoic Chamber	CRT	N/A	SEM001-13	2021/7/13	2024/7/12
Loop Antenna	ETS-LINDGREN	6502	SEM003-36	2021/9/26	2024/9/25
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-25	2022/5/30	2023/5/29
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A

Frequency tolerance					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2022/7/12	2023/7/11
Programmable DC Source	Chroma	62024P-80-60	SEM011-09	2022/7/12	2023/7/11
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-25	2022/5/30	2023/5/29
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2022/7/12	2023/7/11
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A



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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221000040006

Page: 9 of 31

Radiated Emissions (30MHz-1GHz)					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
3m Anechoic Chamber	CRT	N/A	SEM001-13	2021/7/13	2024/7/12
Trilog-Broadband Antenna	Schwarzbeck	VULB9168	SEM003-33	2021/9/25	2024/9/24
MXE EMI receiver	Agilent	N9038A	SEM004-05	2022/7/12	2023/7/11
Pre-amplifier	HP	8447D	SEM005-02	2022/7/12	2023/7/11
Coaxial Cable	CCS	N/A	SEM035-01	2022/5/16	2023/5/15
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A

Radiated Emissions (9kHz-30MHz)					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
3m Anechoic Chamber	CRT	N/A	SEM001-13	2021/7/13	2024/7/12
Loop Antenna	ETS-LINDGREN	6502	SEM003-36	2021/9/26	2024/9/25
MXE EMI receiver	Agilent	N9038A	SEM004-05	2022/7/12	2023/7/11
Pre-amplifier	HP	8447D	SEM005-02	2022/7/12	2023/7/11
Coaxial Cable	CCS	N/A	SEM035-01	2022/5/16	2023/5/15
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A

General used equipment					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Humidity/ Temperature Indicator	Mingle	TH607	SEM002-22	2022-07-12	2023-07-11
Humidity/ Temperature Indicator	Mingle	TH607	SEM002-23	2022-07-12	2023-07-11
Barometer	DUMAI	DYM3	SEM002-24	2022-07-12	2023-07-11



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6 Radio Spectrum Technical Requirement

6.1 Antenna Requirement

6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203

6.1.2 Conclusion

15.203 requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

EUT Antenna:

The antenna is integrated on the main PCB and no consideration of replacement.

Antenna location: Refer to Internal photos



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7 Radio Spectrum Matter Test Results

7.1 20dB Bandwidth

Test Requirement 47 CFR Part 15, Subpart C 15.215
Test Method: ANSI C63.10 (2013) Section 6.9

7.1.1 E.U.T. Operation

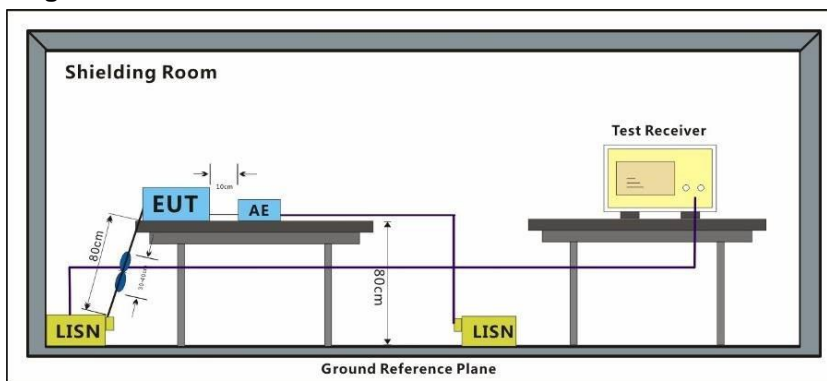
Operating Environment:

Temperature: 21 °C Humidity: 45 % RH Atmospheric Pressure: 1020 mbar

7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	18	TX mode with modulation

7.1.3 Test Setup Diagram



7.1.4 Measurement Procedure and Data

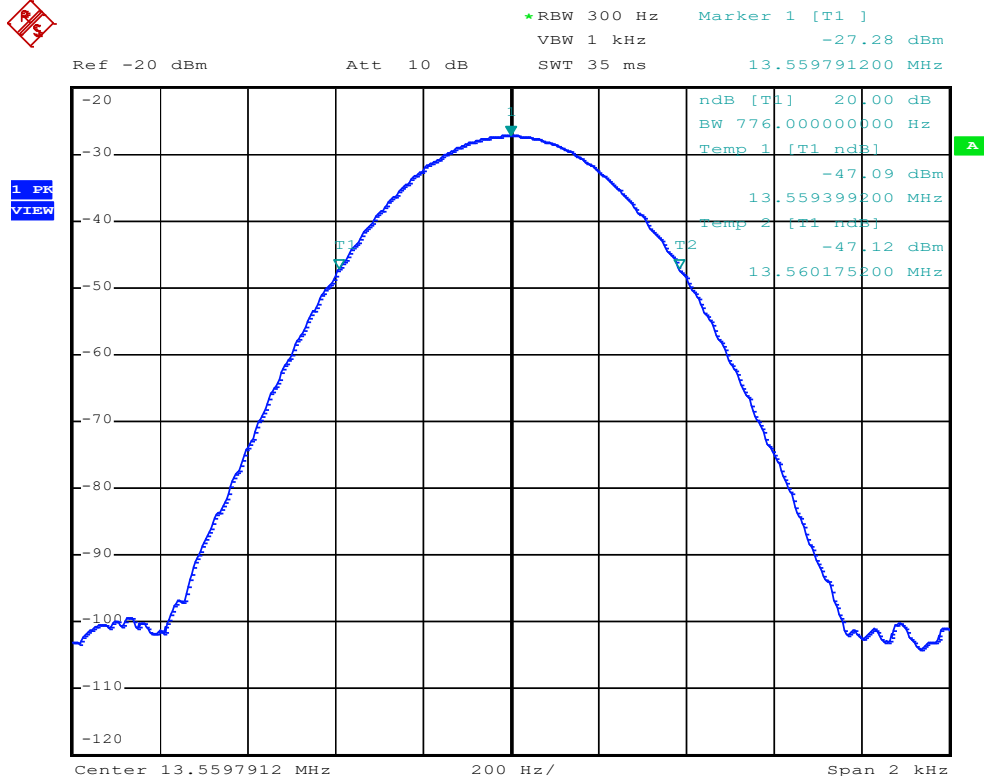
The useful radiated emission from the EUT was detected by the spectrum analyser with peak detector.

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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221000040006

Page: 12 of 31



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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221000040006

Page: 13 of 31

7.2 Conducted Emissions at Mains Terminals (150kHz-30MHz)

Test Requirement 47 CFR Part 15, Subpart C 15.207

Test Method: ANSI C63.10 (2013) Section 6.2

Limit:

Frequency range (MHz)	Limit (dBuV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

* Decreases with the logarithm of the frequency.

7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 19 °C

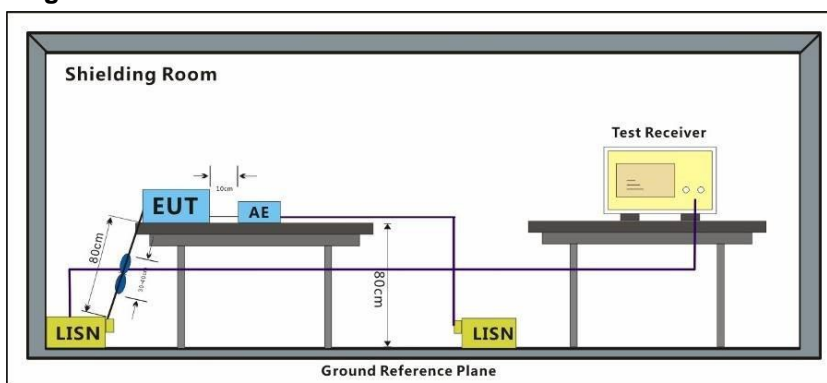
Humidity: 47 % RH

Atmospheric Pressure: 1020 mbar

7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	18	TX mode with modulation

7.2.3 Test Setup Diagram



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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221000040006

Page: 14 of 31

7.2.4 Measurement Procedure and Data

- 1) The mains terminal disturbance voltage test was conducted in a shielded room.
- 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50ohm/50μH + 5ohm linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.
- 3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane,
- 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.
- 5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.

Remark: Level=Read Level+ Cable Loss+ LISN Factor



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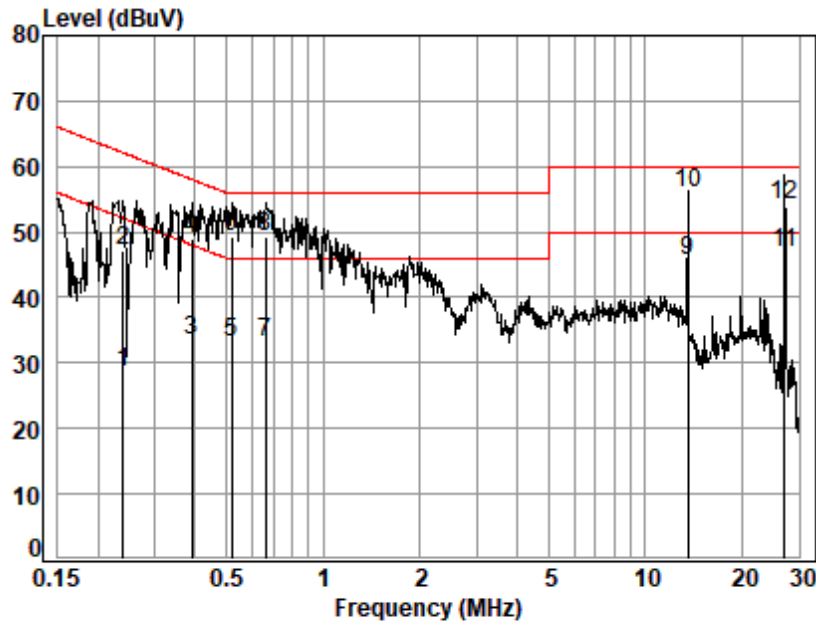
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221000040006

Page: 15 of 31

Test Mode: 18; Line: Live line



Site : Shielding Room
Condition: Line
Job No. : 00400AT
Test mode: 18

	Freq	Cable Loss	LISN Factor	Read Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dB	
1	0.2391	0.02	0.26	28.25	28.53	52.13	Average
2	0.2391	0.02	0.26	46.76	47.04	62.13	QP
3	0.3914	0.03	0.27	33.01	33.31	48.03	Average
4	0.3914	0.03	0.27	48.81	49.11	58.03	QP
5	0.5182	0.02	0.26	32.94	33.22	46.00	Average
6	0.5182	0.02	0.26	49.05	49.33	56.00	QP
7	0.6613	0.02	0.23	32.88	33.13	46.00	Average
8	0.6613	0.02	0.23	48.91	49.16	56.00	QP
9	13.5600	0.05	0.11	45.34	45.50	50.00	Average
10	13.5600	0.05	0.11	55.93	56.09	60.00	QP
11	27.1209	0.08	0.52	46.27	46.87	50.00	Average
12	27.1209	0.08	0.52	53.52	54.12	60.00	QP



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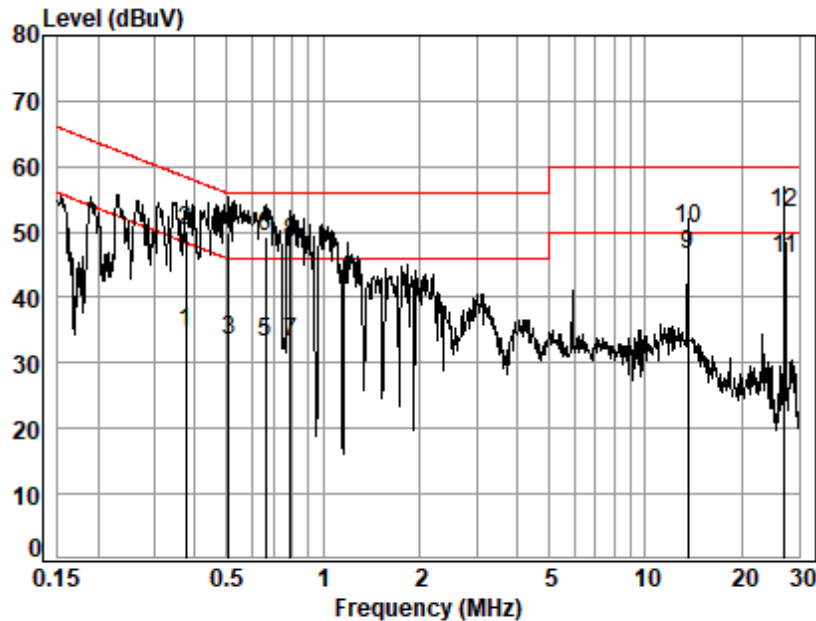
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221000040006

Page: 16 of 31

Test Mode: 18; Line: Neutral Line



Site : Shielding Room
Condition: Neutral
Job No. : 00400AT
Test mode: 18

	Freq	Cable Loss	LISN Factor	Read Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dB	
1	0.3751	0.03	0.28	34.35	34.66	48.39	-13.73 Average
2	0.3751	0.03	0.28	49.85	50.16	58.39	-8.23 QP
3	0.5101	0.01	0.26	33.25	33.52	46.00	-12.48 Average
4	0.5101	0.01	0.26	49.75	50.02	56.00	-5.98 QP
5	0.6613	0.02	0.18	32.97	33.17	46.00	-12.83 Average
6	0.6613	0.02	0.18	49.20	49.40	56.00	-6.60 QP
7	0.7918	0.07	0.13	33.08	33.28	46.00	-12.72 Average
8	0.7918	0.07	0.13	48.07	48.27	56.00	-7.73 QP
9	13.5600	0.05	0.14	46.46	46.65	50.00	-3.35 Average
10	13.5600	0.05	0.14	50.16	50.35	60.00	-9.65 QP
11	27.1218	0.08	0.43	45.39	45.90	50.00	-4.10 Average
12	27.1218	0.08	0.43	52.36	52.87	60.00	-7.13 QP



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Report No.: FYCR221000040006

Page: 17 of 31

7.3 Emission Mask

Test Requirement 47 CFR Part 15, Subpart C 15.225(a)&(b)&(C)
 Test Method: ANSI C63.10 (2013) Section 6.4
 Measurement Distance: 3m

Limit:

- (a) The field strength of any emissions within the band 13.553-13.567 MHz shall not exceed 15,848 microvolts/meter at 30 meters.
- (b) Within the bands 13.410-13.553 MHz and 13.567-13.710 MHz, the field strength of any emissions shall not exceed 334 microvolts/meter at 30 meters.
- (c) Within the bands 13.110-13.410 MHz and 13.710-14.010 MHz the field strength of any emissions shall not exceed 106 microvolts/meter at 30 meters.
- (d) The field strength of any emissions appearing outside of the 13.110-14.010 MHz band shall not exceed the general radiated emission limits in § 15.209.

Below 30MHz

The limit at 30m test distance is below:

$$FS_{\text{limit}} = FS_{\text{max}} - 40 \log \left(\frac{d_{\text{limit}}}{d_{\text{measure}}} \right)$$

where

FS_{limit} is the calculation of field strength at the limit distance, expressed in dBμV/m
 FS_{max} is the measured field strength, expressed in dBμV/m
 d_{measure} is the distance of the measurement point from the EUT
 d_{limit} is the reference distance or the distance of the $\lambda/2\pi$ point

The field strength of any emissions within the band 13.553-13.567 MHz shall not exceed 84dBuV/m at 30 meters.



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Report No.: FYCR221000040006

Page: 18 of 31

7.3.1 E.U.T. Operation

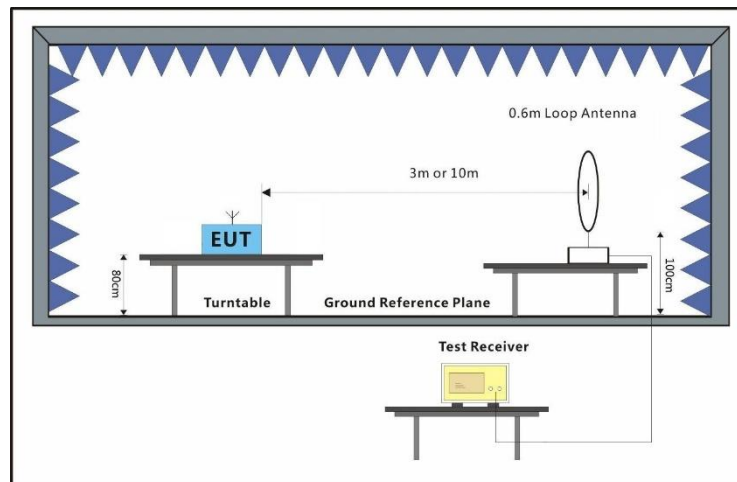
Operating Environment:

Temperature: 23.2 °C Humidity: 52.6 % RH Atmospheric Pressure: 1020 mbar

7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	18	TX mode with modulation

7.3.3 Test Setup Diagram



7.3.4 Measurement Procedure and Data

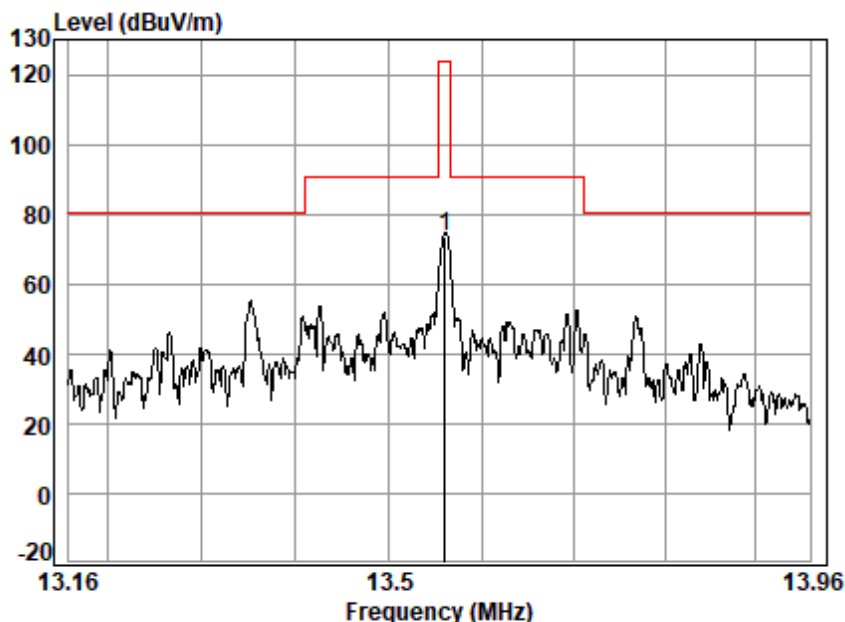
For testing performed with the loop antenna, the center of the loop was positioned 1 m above the ground and positioned with its plane vertical at the specified distance from the EUT. During testing the loop was rotated about its vertical axis for maximum response at each azimuth and also investigated with the loop positioned in the horizontal plane. Only the worst position of vertical was shown in the report.

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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221000040006

Page: 19 of 31



Site : chamber
Condition: 3m VERTICAL
Job No. : 00400AT
Test Mode: 18

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 13.5605	0.40	8.65	31.47	95.99	73.57	124.00	-50.43 QP



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Report No.: FYCR221000040006

Page: 20 of 31

7.4 Frequency tolerance

Test Requirement 47 CFR Part 15, Subpart C 15.225(e)

Test Method: ANSI C63.10 (2013) Section 6.8

Limit:

$\pm 0.01\%$

7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 22 °C

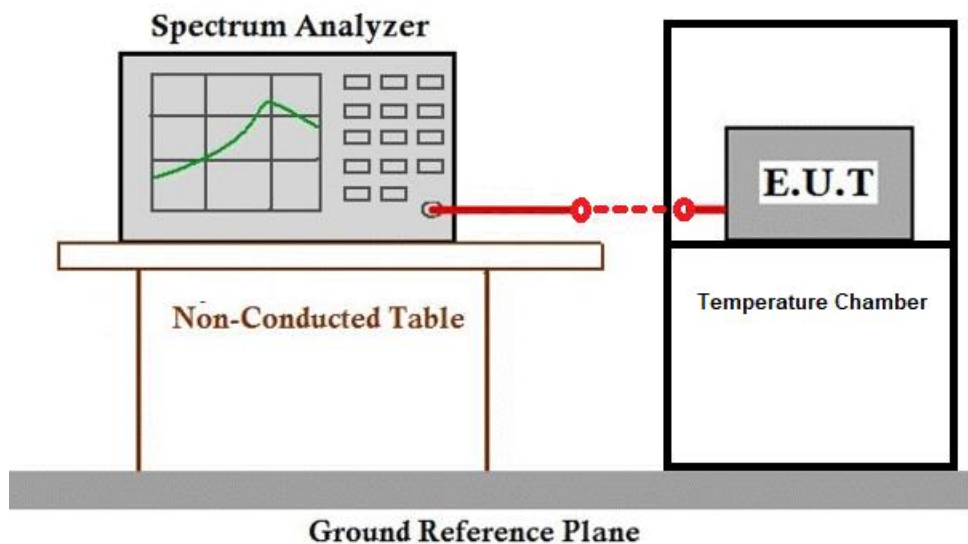
Humidity: 43 % RH

Atmospheric Pressure: 1020 mbar

7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	18	TX mode with modulation

7.4.3 Test Setup Diagram



7.4.4 Measurement Procedure and Data

The EUT was placed in an environmental test chamber and powered such that control element received normal voltage and the transmitter provided maximum RF output.

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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221000040006

Page: 21 of 31

Declared Frequency (MHz)	13.56MHz	@10 minutes
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Temperature (°C)	Voltage(Vdc)	Measurement Frequency(MHz)	Frequency Tolerance (%)	Limit (%)	Result
50	3.6	13.559795	-0.001512	±0.01	Pass
40		13.559796	-0.001504		Pass
30		13.559790	-0.001549		Pass
20		13.559792	-0.001534		Pass
10		13.559800	-0.001475		Pass
0		13.559791	-0.001541		Pass
-10		13.559791	-0.001541		Pass
-20		13.559792	-0.001534		Pass
20	3.3	13.559796	-0.001504		Pass
	4.2	13.559795	-0.001512		Pass



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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221000040006

Page: 22 of 31

7.5 Radiated Emissions (30MHz-1GHz)

Test Requirement 47 CFR Part 15, Subpart C 15.225(d) & 15.209

Test Method: ANSI C63.10 (2013) Section 6.5

Measurement Distance: 3m

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 21 °C

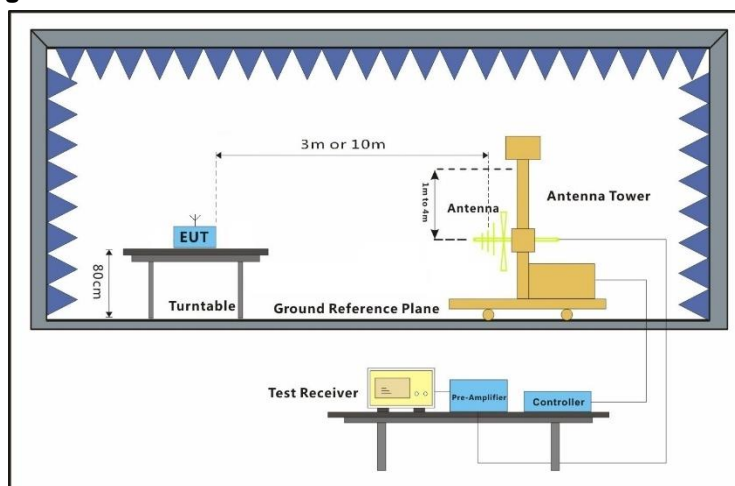
Humidity: 44 % RH

Atmospheric Pressure: 1020 mbar

7.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	18	TX mode with modulation

7.5.3 Test Setup Diagram



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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221000040006

Page: 23 of 31

7.5.4 Measurement Procedure and Data

a. The EUT was placed on the top of a rotating table 0.8 meters above the ground for below 1GHz at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet. g. The radiation measurements are performed in X, Y, Z axis positioning. And found the X axis positioning which it is worse case, only the test worst case mode is recorded in the report. Remark: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor



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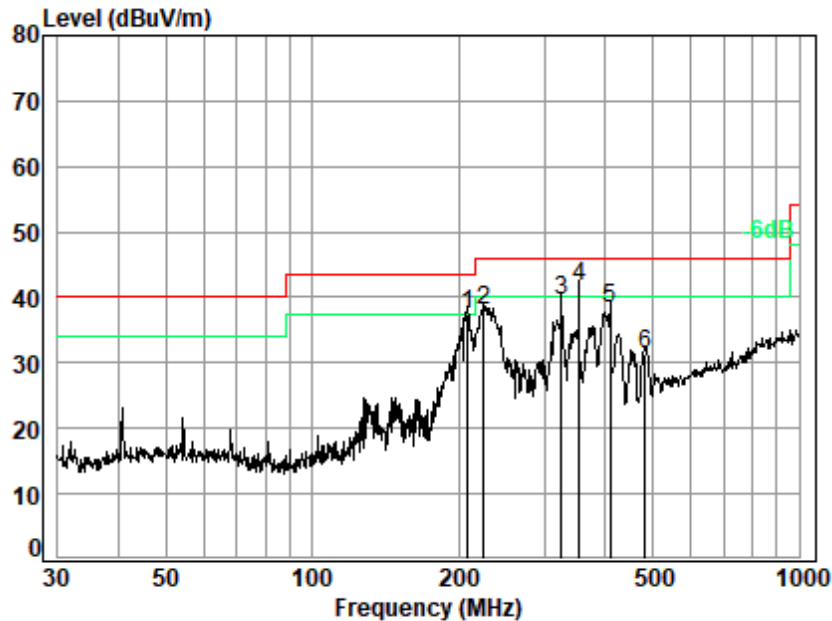
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221000040006

Page: 24 of 31

Test Mode: 18; Polarity: Horizontal



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00400AT
Mode : 18

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dB	
1	208.5803	0.72	15.47	25.47	46.82	37.54	43.50	QP
2	225.3080	0.78	15.95	25.45	46.77	38.05	46.00	QP
3	325.5958	1.28	19.40	25.42	44.34	39.60	46.00	QP
4	352.9434	1.53	19.75	25.43	45.81	41.66	46.00	QP
5	408.9460	1.64	20.90	25.46	41.39	38.47	46.00	QP
6	482.2156	1.42	22.18	25.49	33.18	31.29	46.00	QP



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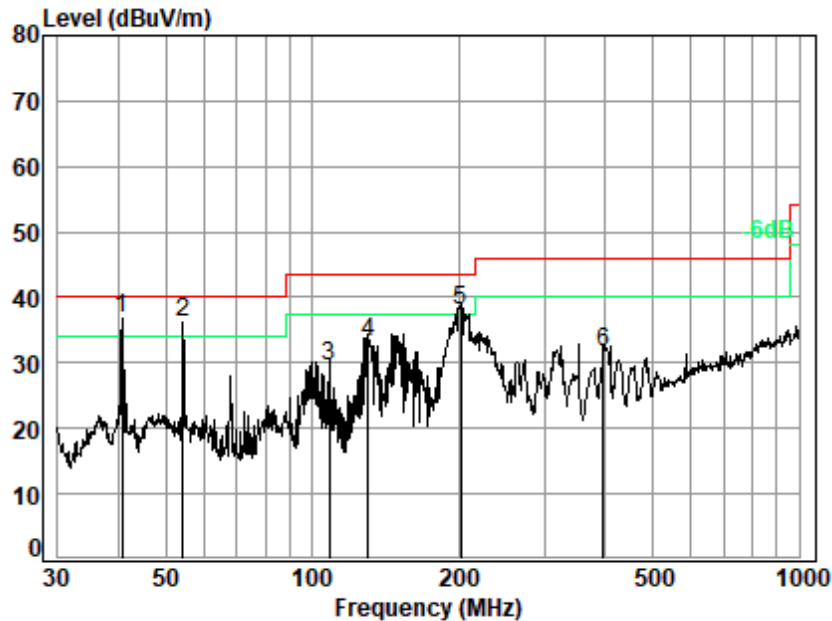
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221000040006

Page: 25 of 31

Test Mode: 18; Polarity: Vertical



Site : chamber
Condition: 3m VERTICAL
Job No : 00400AT
Mode : 18

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	40.7016	0.20	16.88	26.01	45.72	36.79	40.00	-3.21 QP
2	54.2610	0.24	17.26	25.97	44.69	36.22	40.00	-3.78 QP
3	108.2667	0.92	15.22	25.59	38.92	29.47	43.50	-14.03 QP
4	130.3789	0.97	16.65	25.55	41.21	33.28	43.50	-10.22 QP
5	202.1004	0.70	15.19	25.47	47.48	37.90	43.50	-5.60 QP
6	396.2415	1.67	20.65	25.45	34.87	31.74	46.00	-14.26 QP



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Report No.: FYCR221000040006

Page: 26 of 31

7.6 Radiated Emissions (9kHz-30MHz)

Test Requirement 47 CFR Part 15, Subpart C 15.225(d) & 15.209

Test Method: ANSI C63.10 (2013) Section 6.4

Measurement Distance: 3m

Limit:

Frequency(MHz)	Field strength (microvolts/meter)	Limit (dBuV/m)	Detector	Measurement Distance (meters)
0.009-0.490	2400/F(kHz)	-	-	300
0.490-1.705	24000/F(kHz)	-	-	30
1.705-30	30	-	-	30

Below 30MHz

If field strength is measured at only a single point, then that point shall be at the radial from the EUT that produces the maximum emission at the frequency being measured, as described in 5.4. If that point is closer to the EUT than $\lambda/2\pi$ and the limit distance is greater than $\lambda/2\pi$, the measurement shall be extrapolated to the limit distance by conservatively presuming that the field strength decreases at a 40 dB/decade of distance rate to the $\lambda/2\pi$ distance, and at a 20 dB/decade of distance rate beyond $\lambda/2\pi$. This shall be accomplished using Equation (2):

$$FS_{(10m)} = FS_{(30/300m)} + 40\log\{d_{(near\ field)}/d_{(10m)}\} + 20\log\{d_{(30/300m)}/d_{(near\ field)}\} \quad (2)$$

If the single point measured is at a distance greater than $\lambda/2\pi$, then extrapolation to the limit distance shall be calculated using Equation (3):

$$FS_{(10m)} = FS_{(30/300m)} + 20\log\{d_{(30/300m)}/d_{(10m)}\} \quad (3)$$

If both the single point and the limit distance are equal to or closer to the EUT than $\lambda/2\pi$, then extrapolation to the limit distance shall be calculated using Equation (4):

$$FS_{(10m)} = FS_{(30/300m)} + 40\log\{d_{(30/300m)}/d_{(10m)}\} \quad (4)$$

Remark:

$$d_{near\ field} = 47.77 / f_{MHz}$$

where f_{MHz} is the frequency of the emission being measured in MHz.

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level = Receiver Reading + Antenna Factor + Cable Factor – Preamplifier Factor



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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221000040006

Page: 27 of 31

$$FS_{\text{limit}} = FS_{\text{max}} - 40 \log \left(\frac{d_{\text{limit}}}{d_{\text{measure}}} \right)$$

where

FS_{limit} is the calculation of field strength at the limit distance, expressed in dBμV/m
 FS_{max} is the measured field strength, expressed in dBμV/m
 d_{measure} is the distance of the measurement point from the EUT
 d_{limit} is the reference distance or the distance of the $\lambda/2\pi$ point

r

7.6.1 E.U.T. Operation

Operating Environment:

Temperature: 23.2 °C Humidity: 52.6 % RH Atmospheric Pressure: 1020 mbar

7.6.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	18	TX mode with modulation



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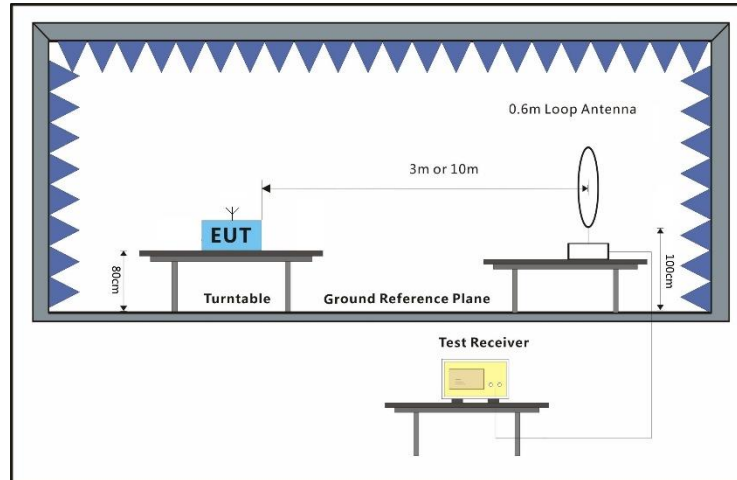
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Report No.: FYCR221000040006

Page: 28 of 31

7.6.3 Test Setup Diagram



7.6.4 Measurement Procedure and Data

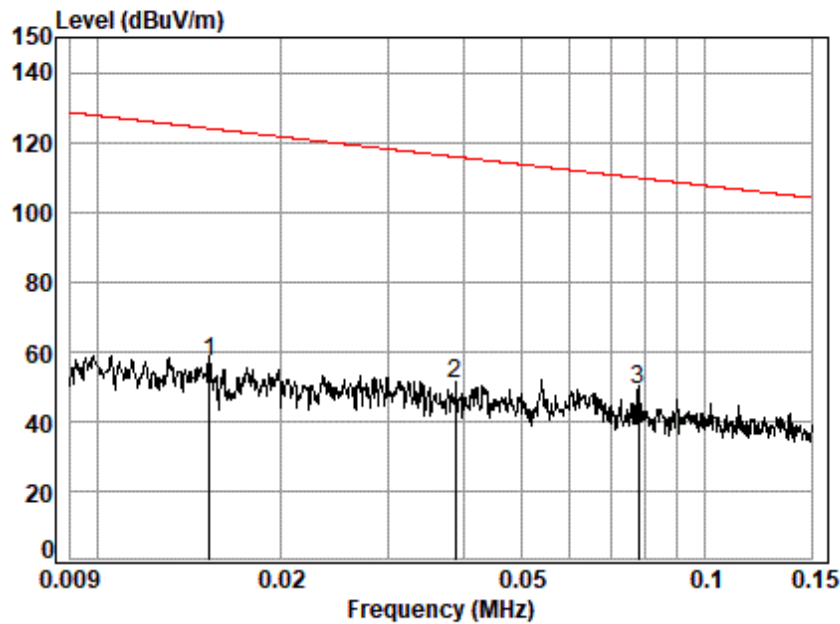
For testing performed with the loop antenna, the center of the loop was positioned 1 m above the ground and positioned with its plane vertical at the specified distance from the EUT. During testing the loop was rotated about its vertical axis for maximum response at each azimuth and also investigated with the loop positioned in the horizontal plane. Only the worst position of vertical was shown in the report.

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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221000040006

Page: 29 of 31



Condition: 3m

Job No. : 00400AT

Test Mode: 18

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	0.0153	0.30	15.46	31.64	72.75	56.87	123.95	-67.08	Average
2	0.0388	0.31	11.43	31.72	70.69	50.71	115.81	-65.10	Average
3	0.0778	0.32	10.62	31.78	70.29	49.45	109.78	-60.33	Average



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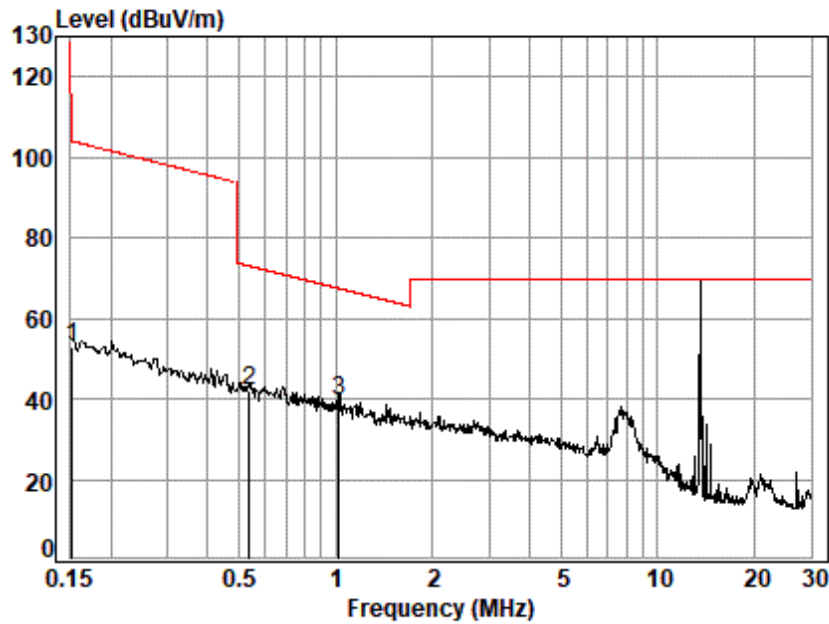
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221000040006

Page: 30 of 31



Condition: 3m

Job No. : 00400AT

Test Mode: 18

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	0.1518	0.29	10.41	31.88	74.27	53.09	103.99	-50.90	Average
2	0.5375	0.41	10.30	31.83	63.25	42.13	72.99	-30.86	QP
3	1.0212	0.30	10.28	31.80	60.83	39.61	67.42	-27.81	QP



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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221000040006

Page: 31 of 31

8 Test Setup Photo

Refer to Appendix - Test Setup Photo for FYCR2210000400AT

9 EUT Constructional Details (EUT Photos)

Refer to Appendix – External and Internal Photos for FYCR2210000400AT

- End of the Report -



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